

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Sante Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Sante Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-44464		² Pool Code 59900		³ Pool Name TRIPLE X; BONE SPRING	
⁴ Property Code 313956		⁵ Property Name NEPTUNE 10 STATE COM			⁶ Well Number 102H
⁷ OGRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3613'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	10	24-S	33-E	-	130'	SOUTH	2202'	EAST	LEA

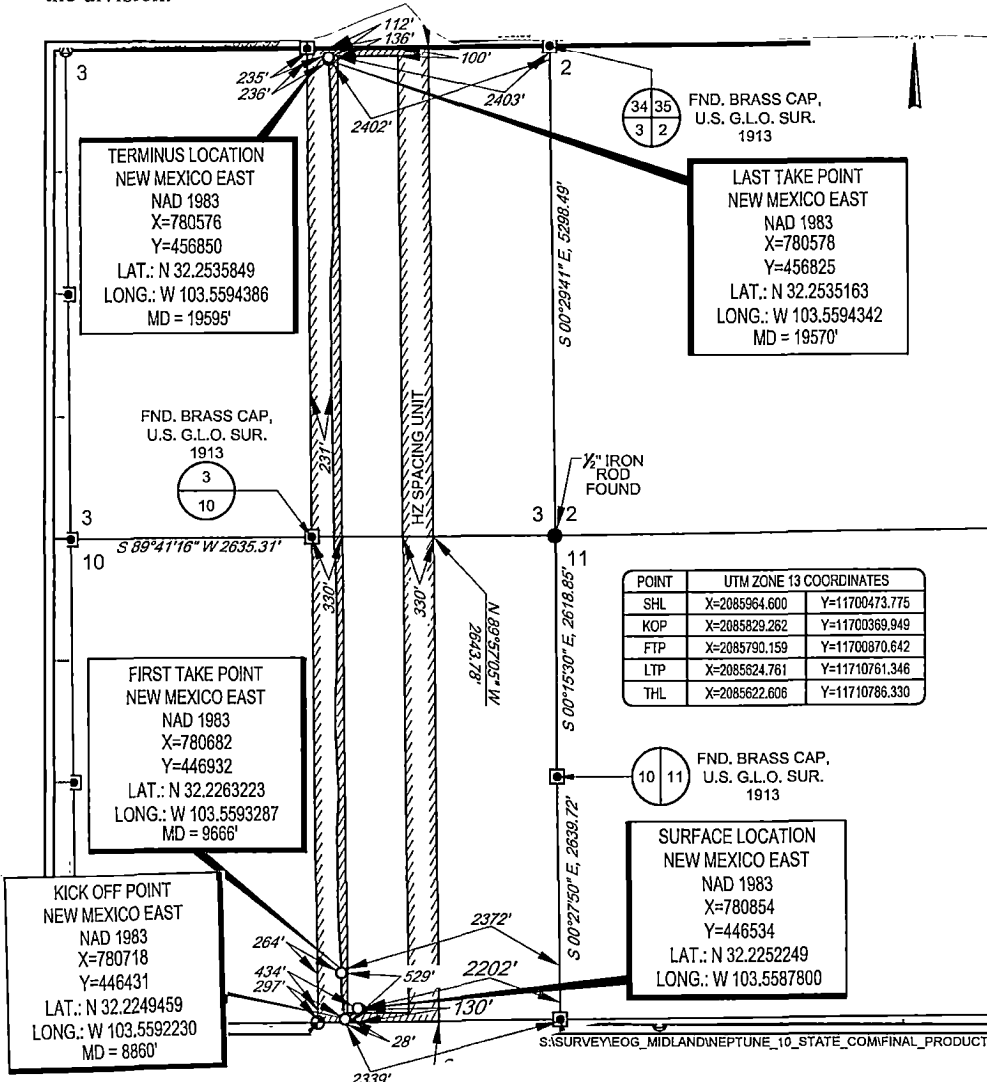
¹¹Bottom Hole Location If Different From Surface

NSL-7985

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	3	24-S	33-E	-	112'	NORTH	2403'	EAST	LEA

¹² Dedicated Acres 320.08	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL 7985
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kay Maddox 11/17/2020
Signature Date

KAY MADDOX
Printed Name
kay_maddox@eogresources.com
E-mail Address

¹⁸SURVEYOR CERTIFICATION

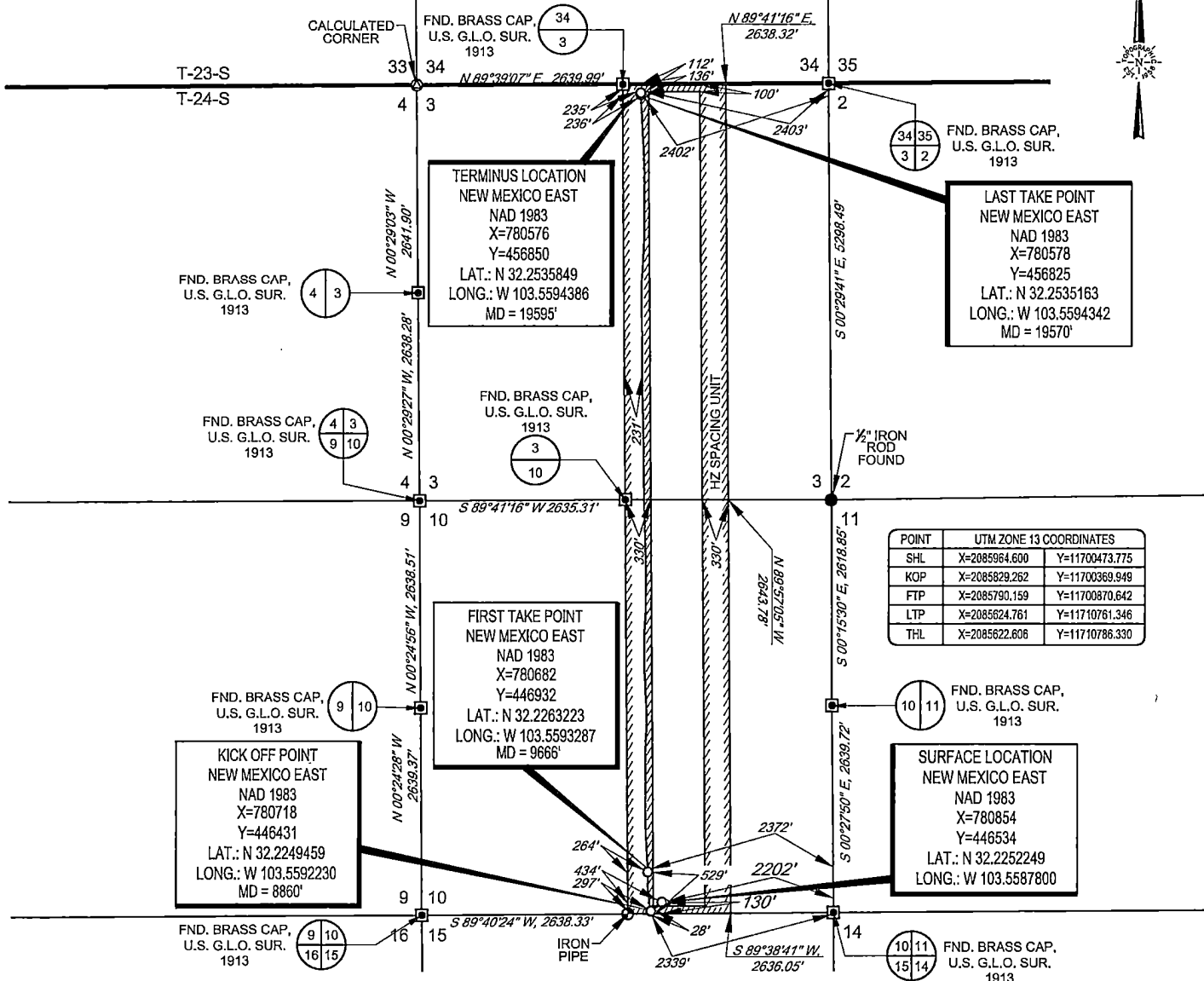
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

11/20/2019
Date of Survey
Signature and Seal of Professional Surveyor
RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

Certificate Number

SCALE: 1" = 2000'
 0' 1000' 2000'

SECTION 10 TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.
 LEA COUNTY, NEW MEXICO

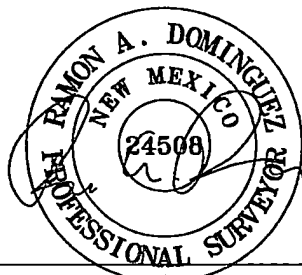


POINT	UTM ZONE 13 COORDINATES	
SHL	X=2085964.600	Y=11700473.775
KOP	X=2085829.262	Y=11700369.949
FTP	X=2085790.159	Y=11700870.642
LTP	X=2085624.761	Y=11710761.346
THL	X=2085622.606	Y=11710786.330

LEASE NAME & WELL NO.: NEPTUNE 10 STATE COM #102H
 SECTION 10 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3613'
 DESCRIPTION 130' FSL & 2202' FEL



1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2803 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM



Ramon A. Dominguez, P.S. No. 24508
 JULY 08, 2020



NEPTUNE 10 STATE COM #102H AS-COMPLETE	REVISION:	
	INT	DATE
DATE: 07/08/2020		
FILE:AD_NEPTUNE10STATECOM_102H		
DRAWN BY: H.B.		
SHEET: 1 OF 1		

NOTES:
 1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983.
 3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

Intent As Drilled XXX

API #
30-025-44464

Operator Name: EOG RESOURCES, INC	Property Name: NEPTUNE 10 STATE COM	Well Number 102H
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Kick Off Point (KOP)

UL O	Section 10	Township 24S	Range 33E	Lot	Feet 28	From N/S SOUTH	Feet 2339	From E/W EAST	County LEA
Latitude 32.2249459					Longitude 103.5592230				NAD 1983

First Take Point (FTP)

UL O	Section 10	Township 24S	Range 33E	Lot	Feet 529	From N/S SOUTH	Feet 2372	From E/W EAST	County LEA
Latitude 32.2263223					Longitude 103.5593287				NAD 1983

Last Take Point (LTP)

UL B	Section 3	Township 24S	Range 33E	Lot	Feet 136	From N/S NORTH	Feet 2402	From E/W EAST	County LEA
Latitude 32.2535163					Longitude 103.5594342				NAD 1983

Is this well the defining well for the Horizontal Spacing Unit? YES

Is this well an infill well? NO

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name: EOG RESOURCES, INC	Property Name:	Well Number
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#102H

OH

Design: OH

Midland PVA

31 March, 2020



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #102H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Wells:	#102H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Neptune 10 State Com		
Site Position:		Northing:	446,557.00 usft
From:	Map	Eastings:	778,964.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 31.172 N
		Longitude:	103° 33' 53.609 W
		Grid Convergence:	0.41 °

Well	#102H					
Well Position	+N-S	0.0 usft	Northing:	446,534.00 usft	Latitude:	32° 13' 30.810 N
	+E-W	0.0 usft	Eastings:	780,854.00 usft	Longitude:	103° 33' 31.610 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,613.0 usft

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
	IGRF2015	2/14/2020	(°)	(°)	(nT)	
			6.66	60.03	47,665.00717631	

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:		Depth From (TVD)	+N-S	+E-W	Direction
		(usft)	(usft)	(usft)	(°)
		0.0	0.0	0.0	358.52

Survey Program	Date	3/31/2020			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
154.0	19,595.0	Gyrodata (OH)	EOG MWD+IFR1	MWD + IFR1	



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #102H
Project:	Lea County, NM (NAD 83.NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#102H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM.

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
154.0	0.73	346.09	154.0	1.0	-0.2	0.47	0.47	0.00	-1.0	0.0
331.0	0.06	14.28	331.0	2.1	-0.5	0.38	-0.38	15.93	-2.0	1.0
506.0	0.18	65.38	506.0	2.3	-0.2	0.09	0.07	29.20	-0.8	2.2
679.0	0.38	219.93	679.0	2.0	-0.3	0.32	0.12	89.34	1.3	-1.5
870.0	0.49	186.44	870.0	0.7	-0.8	0.14	0.06	-17.53	0.6	-0.9
1,056.0	0.53	192.20	1,056.0	-0.9	-1.1	0.03	0.02	3.10	-1.1	-0.9
1,245.0	0.80	109.46	1,245.0	-3.0	-1.7	0.15	0.14	3.84	-3.4	-0.6
1,370.0	0.83	205.61	1,370.0	-4.7	-2.4	0.07	0.02	4.92	-5.2	-0.2
1,514.0	1.09	183.81	1,513.9	-7.0	-3.0	0.31	0.18	-15.14	-7.1	-2.5
1,703.0	0.79	192.79	1,702.9	-10.0	-3.4	0.18	-0.16	4.75	-10.5	-1.1
1,891.0	1.09	192.33	1,890.9	-13.0	-4.0	0.16	0.16	-0.24	-13.6	-1.2
2,080.0	1.55	236.00	2,079.8	-16.2	-6.5	0.57	0.24	23.11	-14.5	9.8
2,268.0	1.86	240.12	2,267.8	-19.2	-11.3	0.18	0.16	2.19	-16.0	11.4
2,456.0	2.53	241.58	2,455.6	-22.7	-17.6	0.36	0.36	0.78	-10.5	13.0
2,645.0	3.78	238.09	2,644.3	-27.9	-26.5	0.67	0.66	-1.85	-8.7	14.1
2,834.0	4.21	240.80	2,832.9	-34.6	-37.9	0.25	0.23	1.43	-8.0	16.2
3,023.0	4.24	243.30	3,021.3	-41.1	-50.2	0.10	0.02	1.32	-8.1	17.7
3,212.0	3.48	243.40	3,209.9	-46.8	-61.5	0.40	-0.40	0.05	-7.6	18.5
3,400.0	4.44	241.95	3,397.5	-52.8	-73.1	0.51	0.51	-0.77	-8.0	19.3
3,588.0	4.29	248.65	3,584.9	-58.8	-86.0	0.28	-0.08	3.56	-6.9	20.6
3,776.0	3.83	252.15	3,772.5	-63.3	-98.6	0.28	-0.24	1.86	-5.8	20.2
3,965.0	3.29	233.34	3,961.1	-68.5	-108.9	0.68	-0.29	-9.95	-10.6	18.3
4,154.0	3.49	239.49	4,149.8	-74.6	-118.2	0.22	0.11	3.25	-6.7	21.6
4,342.0	3.73	253.76	4,337.4	-79.2	-129.0	0.49	0.13	7.59	0.2	22.4
4,531.0	2.64	254.64	4,526.1	-82.1	-139.1	0.58	-0.58	0.47	3.1	20.7
4,720.0	1.98	267.96	4,714.9	-83.4	-146.6	0.45	-0.35	7.05	12.6	15.7



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #102H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#102H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Buıld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,908.0	0.73	250.33	4,902.9	-83.9	-151.0	0.69	-0.66	-9.38	16.0	17.1
5,067.0	0.64	229.67	5,061.9	-84.8	-152.6	0.16	-0.06	-12.99	17.7	24.6
5,192.0	0.89	218.80	5,186.9	-85.9	-153.6	0.11	0.04	-8.70	17.5	30.6
5,380.0	2.63	73.86	5,374.8	-85.5	-150.2	1.71	1.03	-77.10	-37.0	-15.4
5,570.0	1.88	48.09	5,564.7	-82.2	-143.7	0.65	-0.39	-13.56	-33.6	-31.9
5,758.0	1.97	21.16	5,752.6	-77.2	-140.2	0.48	0.05	-14.32	-21.5	-45.1
5,946.0	1.96	26.31	5,940.5	-71.3	-137.6	0.09	-0.01	2.74	-31.9	-42.7
6,135.0	2.03	20.21	6,129.3	-65.2	-135.0	0.12	0.04	-3.23	-33.8	-46.2
6,323.0	1.57	19.35	6,317.2	-59.7	-133.0	0.25	-0.24	-0.46	-39.0	-46.7
6,512.0	1.37	276.05	6,506.2	-57.0	-134.4	1.22	-0.11	-54.66	52.7	-29.7
6,700.0	1.64	281.44	6,694.1	-56.2	-139.3	0.16	0.14	2.87	44.8	-34.4
6,889.0	0.81	169.46	6,883.1	-57.0	-141.7	1.10	-0.44	-59.25	14.8	51.9
7,077.0	0.70	171.17	7,071.1	-59.4	-141.3	0.06	-0.06	0.91	13.8	51.5
7,266.0	0.97	158.64	7,260.1	-62.1	-140.5	0.17	0.14	-6.63	-0.4	53.0
7,454.0	1.32	199.21	7,448.0	-65.6	-140.6	0.46	0.19	21.58	30.8	41.5
7,602.5	1.43	190.00	7,596.5	-69.0	-141.5	0.16	0.07	-6.20	20.2	45.7
Brushy Top(Neptune 10 St Com #102H)										
7,643.0	1.46	187.74	7,637.0	-70.0	-141.7	0.16	0.09	-5.58	17.4	46.4
7,832.0	1.63	183.16	7,825.9	-75.1	-142.2	0.11	0.09	-2.42	8.5	47.5
8,021.0	1.55	171.57	8,014.9	-80.3	-141.9	0.18	-0.04	-6.13	-6.4	47.7
8,209.0	1.52	164.41	8,202.8	-85.2	-140.9	0.10	-0.02	-3.81	-17.3	46.2
8,398.0	1.70	163.32	8,391.7	-90.3	-139.4	0.10	0.10	-0.58	-23.5	45.8
8,586.0	1.85	161.45	8,579.6	-95.9	-137.6	0.09	0.08	-0.99	-30.8	44.9
8,775.0	1.85	174.58	8,768.5	-101.8	-136.4	0.22	0.00	6.95	-25.8	51.4
8,796.0	1.70	165.79	8,789.5	-102.5	-136.3	1.48	-0.71	-41.86	-34.0	46.8
8,860.0	2.26	354.73	8,853.5	-102.1	-136.2	6.17	0.88	-267.28	26.0	-51.7

KOP, MD:8860.0', TVD:8853.5', N/S:-102.1', E/W:-136.2', INC:2.26



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #102H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#102H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
8,912.0	5.47	352.48	8,905.4	-98.6	-136.6	6.17	6.17	-4.33	25.4	-50.6
9,006.0	20.60	354.71	8,996.7	-77.6	-138.7	16.10	16.10	2.37	14.6	-50.3
9,101.0	32.19	353.11	9,081.6	-35.7	-143.3	12.22	12.20	-1.68	0.1	-47.3
9,109.8	32.93	352.97	9,089.1	-31.0	-143.9	8.48	8.44	-1.57	-1.4	-46.9
FTP Crossing, MD:9109.8', TVD:9089.1', N/S:-31.0', E/W:-143.9', INC:32.93'										
9,195.0	40.13	351.87	9,157.5	19.2	-150.6	8.48	8.45	-1.29	-15.5	-42.1
9,289.0	45.18	353.17	9,226.6	82.4	-158.8	5.45	5.37	1.38	-27.6	-34.7
9,359.6	47.37	352.09	9,275.4	132.9	-165.4	3.29	3.10	-1.53	-29.7	-28.8
FTP (Neptune 10 St Com #102H)										
9,383.0	48.10	351.75	9,291.1	150.1	-167.8	3.29	3.11	-1.46	-29.0	-26.5
9,478.0	56.35	356.52	9,349.3	224.7	-175.3	9.54	8.68	5.02	-24.5	-17.6
9,572.0	68.45	350	9,392.8	307.8	-175.0	14.45	12.87	7.43	-20.0	-17.4
9,666.0	75.27	359.78	9,422.0	397.0	-172.5	8.17	7.26	-3.96	-13.7	-21.0
9,760.0	83.17	356.86	9,439.6	489.2	-175.3	8.94	8.40	-3.11	-4.2	-19.0
9,854.0	92.58	355.21	9,443.1	582.8	-181.8	10.16	10.01	-1.76	-0.1	-13.2
9,948.0	90.64	356.41	9,440.5	676.5	-188.6	2.43	-2.06	1.28	-1.9	-7.0
10,042.0	88.62	358.00	9,441.1	770.4	-193.2	2.73	-2.15	1.69	-0.5	-3.1
10,136.0	88.05	357.38	9,443.8	864.3	-197.0	0.90	-0.61	-0.66	3.0	0.0
10,231.0	87.89	356.62	9,447.2	959.1	-202.0	0.82	-0.17	-0.80	7.2	4.3
10,325.0	91.54	357.30	9,447.6	1,053.0	-206.9	3.95	3.88	0.72	8.5	8.5
10,419.0	90.03	359.10	9,446.3	1,146.9	-209.9	2.50	-1.61	1.91	8.0	10.8
10,513.0	88.93	0.50	9,447.2	1,240.9	-210.2	1.89	-1.17	1.49	9.6	10.4
10,608.0	88.19	0.94	9,449.6	1,335.8	-209.0	0.91	-0.78	0.46	12.8	8.5
10,702.0	87.79	0.69	9,452.9	1,429.8	-207.7	0.50	-0.43	-0.27	16.9	6.5
10,796.0	87.55	359.94	9,456.7	1,523.7	-207.2	0.84	-0.26	-0.80	21.5	5.3
10,891.0	88.69	359.15	9,459.8	1,618.6	-207.9	1.46	1.20	-0.83	25.5	5.3
10,985.0	91.54	358.36	9,459.6	1,712.6	-210.0	3.15	3.03	-0.84	26.1	6.7



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #102H
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Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#102H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
11,079.0	91.67	358.73	9,457.0	1,806.5	-212.4	0.42	0.14	0.39	24.3	8.4
11,174.0	91.71	1.83	9,454.2	1,901.5	-211.9	3.26	0.04	3.26	22.3	7.2
11,268.0	90.50	3.61	9,452.4	1,995.4	-207.4	2.29	-1.29	1.89	21.3	2.1
11,362.0	87.18	3.81	9,454.3	2,089.1	-201.4	3.54	-3.53	0.21	24.0	-4.7
11,456.0	86.95	3.82	9,459.1	2,182.8	-195.1	0.24	-0.24	0.01	29.6	-11.6
11,551.0	89.46	0.91	9,462.1	2,277.7	-191.2	4.04	2.64	-3.06	33.4	-16.3
11,646.0	89.16	359.19	9,463.2	2,372.6	-191.1	1.84	-0.32	-1.81	35.3	-17.1
11,740.0	88.39	359.01	9,465.2	2,466.6	-192.6	0.84	-0.82	-0.19	38.1	-16.3
11,835.0	88.62	356.95	9,467.7	2,561.5	-195.9	2.18	0.24	-2.17	41.4	-13.6
11,868.9	88.91	356.89	9,468.4	2,595.3	-197.8	0.88	0.86	-0.19	42.4	-12.1
TGT#1(Neptune 10 St Com #102H)										
11,929.0	89.43	356.77	9,469.3	2,655.4	-201.1	0.88	0.86	-0.19	43.2	-9.2
12,023.0	89.43	357.12	9,470.2	2,749.2	-206.1	0.37	0.00	0.37	43.6	-4.9
12,117.0	91.27	356.52	9,469.7	2,843.1	-211.3	2.06	1.96	-0.64	42.4	-0.3
12,211.0	91.54	356.18	9,467.4	2,936.8	-217.3	0.46	0.29	-0.36	39.5	4.9
12,306.0	92.52	358.19	9,464.0	3,031.7	-221.9	2.35	1.03	2.12	35.5	8.9
12,400.0	94.20	358.66	9,458.5	3,125.5	-224.5	1.86	1.79	0.50	29.4	10.8
12,495.0	91.81	0.04	9,453.5	3,220.3	-225.6	2.90	-2.52	1.45	23.8	11.2
12,589.0	92.96	0.80	9,449.6	3,314.2	-224.9	1.47	1.22	0.81	19.3	9.8
12,683.0	92.32	2.83	9,445.3	3,408.1	-221.9	2.26	-0.68	2.16	14.3	6.1
12,778.0	90.23	3.20	9,443.2	3,502.9	-216.9	2.23	-2.20	0.39	11.6	0.4
12,872.0	90.47	2.54	9,442.6	3,596.8	-212.2	0.75	0.26	-0.70	10.4	-5.0
12,967.0	91.07	1.52	9,441.3	3,691.7	-208.9	1.25	0.63	-1.07	8.5	-9.1
13,061.0	89.03	1.42	9,441.2	3,785.7	-206.5	2.17	-2.17	-0.11	7.8	-12.2
13,156.0	87.82	1.05	9,443.8	3,880.6	-204.4	1.33	-1.27	-0.39	9.8	-14.9
13,250.0	88.86	0.23	9,446.6	3,974.6	-203.4	1.41	1.11	-0.87	11.9	-16.7
13,344.0	89.60	0.11	9,447.8	4,068.6	-203.1	0.80	0.79	-0.13	12.6	-17.6



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #102H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#102H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Büld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
13,439.0	89.43	0.38	9,448.6	4,163.6	-202.7	0.34	-0.18	0.28	12.8	-18.8
13,533.0	90.67	359.96	9,448.5	4,257.6	-202.4	1.39	1.32	-0.45	12.1	-19.7
13,628.0	88.86	358.15	9,448.9	4,352.6	-204.0	2.69	-1.91	-1.91	11.9	-18.9
13,722.0	89.33	357.64	9,450.4	4,446.5	-207.4	0.74	0.50	-0.54	12.7	-16.1
13,816.0	91.14	357.95	9,450.0	4,540.4	-211.0	1.95	1.93	0.33	11.7	-13.2
13,911.0	89.97	358.18	9,449.1	4,635.3	-214.2	1.26	-1.23	0.24	10.2	-10.7
14,005.0	90.27	358.80	9,448.9	4,729.3	-216.7	0.73	0.32	0.66	9.4	-8.9
14,099.0	89.80	359.39	9,448.9	4,823.3	-218.2	0.80	-0.50	0.63	8.7	-8.1
14,194.0	89.23	358.20	9,449.7	4,918.3	-220.2	1.39	-0.60	-1.25	8.9	-6.8
14,288.0	90.30	358.68	9,450.0	5,012.2	-222.8	1.25	1.14	0.51	8.7	-5.0
14,383.0	91.28	358.67	9,448.7	5,107.2	-225.0	1.03	1.03	-0.01	6.8	-3.5
14,477.0	88.43	358.67	9,449.0	5,201.2	-227.1	3.03	-3.03	0.00	6.4	-2.0
14,572.0	88.62	358.80	9,451.4	5,296.1	-229.2	0.24	0.20	0.14	8.2	-0.6
14,666.0	89.70	358.48	9,452.8	5,390.1	-231.5	1.20	1.15	-0.34	9.0	1.0
14,760.0	89.46	359.38	9,453.5	5,484.0	-233.2	0.99	-0.26	0.96	9.1	2.0
14,855.0	89.77	359.28	9,454.1	5,579.0	-234.3	0.34	0.33	-0.11	9.1	2.4
14,949.0	87.85	0.86	9,456.1	5,673.0	-234.2	2.64	-2.04	1.68	10.5	1.6
15,006.5	87.79	0.69	9,458.3	5,730.4	-233.4	0.31	-0.11	-0.29	12.3	0.4
TGT#2(Neptune 10 St Com #102H)										
15,044.0	87.75	0.58	9,459.7	5,767.9	-233.0	0.31	-0.11	-0.29	13.6	-0.3
15,138.0	86.91	357.93	9,464.1	5,861.8	-234.2	2.95	-0.89	-2.82	17.9	0.2
15,232.0	86.61	358.67	9,469.4	5,955.6	-237.0	0.85	-0.32	0.79	23.1	2.3
15,326.0	86.78	358.26	9,474.8	6,049.4	-239.5	0.47	0.18	-0.44	28.4	4.2
15,421.0	89.50	359.63	9,477.9	6,144.4	-241.3	3.21	2.86	1.44	31.4	5.2
15,515.0	89.53	359.30	9,478.7	6,238.3	-242.2	0.35	0.03	-0.35	32.1	5.4
15,609.0	89.56	358.78	9,479.5	6,332.3	-243.7	0.55	0.03	-0.55	32.8	6.3
15,704.0	90.87	357.63	9,479.1	6,427.3	-246.7	1.83	1.38	-1.21	32.3	8.5



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #102H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#102H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Bujld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,798.0	91.41	358.08	9,477.2	6,521.2	-250.2	0.75	0.57	0.48	30.3	11.3
15,893.0	90.44	358.46	9,475.7	6,616.1	-253.1	1.10	-1.02	0.40	28.7	13.5
15,987.0	90.50	358.58	9,474.9	6,710.1	-255.5	0.14	0.06	0.13	27.8	15.2
16,081.0	89.43	0.41	9,475.0	6,804.1	-256.4	2.26	-1.14	1.95	27.8	15.4
16,176.0	86.88	0.77	9,478.0	6,899.0	-254.4	2.71	-2.68	0.38	30.7	13.7
16,270.0	86.85	0.21	9,483.2	6,992.9	-254.6	0.60	-0.03	-0.60	35.8	12.2
16,365.0	87.79	0.84	9,487.6	7,087.8	-253.7	1.19	0.99	0.66	40.1	10.6
16,459.0	87.85	0.37	9,491.2	7,181.7	-252.7	0.50	0.06	-0.50	43.6	8.9
16,553.0	91.21	359.58	9,492.0	7,275.7	-252.8	3.67	3.57	-0.84	44.3	8.3
16,647.0	88.79	358.19	9,492.0	7,369.7	-254.6	2.97	-2.57	-1.48	44.2	9.4
16,742.0	90.13	358.33	9,492.9	7,464.6	-257.5	1.42	1.41	0.15	45.0	11.6
16,836.0	90.27	357.81	9,492.0	7,558.6	-260.6	0.56	-0.06	-0.55	44.7	14.1
16,930.0	93.28	359.92	9,490.7	7,652.5	-262.5	4.09	3.41	2.24	41.8	15.3
17,024.0	93.76	359.91	9,484.2	7,746.3	-262.6	0.51	0.51	-0.01	36.0	14.7
17,118.0	90.67	1.91	9,480.6	7,840.2	-261.1	3.91	-3.29	2.13	32.2	12.5
17,213.0	89.97	2.40	9,480.0	7,935.1	-257.6	0.90	-0.74	0.52	31.6	8.2
17,307.0	90.54	3.77	9,479.6	8,029.0	-252.5	1.58	0.61	1.46	31.1	2.5
17,401.0	91.14	3.30	9,478.2	8,122.8	-246.7	0.81	0.64	-0.50	29.6	-4.0
17,495.0	91.31	3.46	9,476.2	8,216.6	-241.2	0.25	0.18	0.17	27.5	-10.2
17,589.0	91.54	2.93	9,473.9	8,310.4	-235.9	0.61	0.24	-0.56	25.1	-16.2
17,684.0	92.32	2.37	9,470.7	8,405.3	-231.6	1.01	0.82	-0.59	21.8	-21.3
17,778.0	91.07	1.10	9,467.9	8,499.2	-228.7	1.90	-1.33	-1.35	18.9	-24.8
17,872.0	90.84	359.20	9,466.3	8,593.2	-228.5	2.04	-0.24	-2.02	17.2	-25.8
17,967.0	90.10	358.79	9,465.6	8,688.2	-230.1	0.89	-0.78	-0.43	16.3	-24.8
18,061.0	90.13	0.79	9,465.4	8,782.2	-230.5	2.13	0.03	2.13	16.0	-25.2
18,155.0	89.66	0.40	9,465.5	8,876.2	-229.5	0.65	-0.50	-0.41	16.1	-26.8
18,249.0	88.49	359.92	9,467.1	8,970.1	-229.2	1.35	-1.24	-0.51	17.5	-27.8



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #102H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB 25 @ 3638.0usft
Site:	Neptune 10 State Com	MD Reference:	KB 25 @ 3638.0usft
Well:	#102H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
18,343.0	88.22	1.01	9,469.8	9,064.1	-228.5	1.19	-0.29	1.16	20.1	-29.3
18,437.0	88.02	0.71	9,472.8	9,158.0	-227.1	0.38	-0.21	-0.32	23.1	-31.4
18,532.0	89.26	359.09	9,475.1	9,253.0	-227.2	2.15	1.31	-1.71	25.2	-31.9
18,626.0	92.15	358.67	9,473.9	9,347.0	-229.1	3.11	3.07	-0.45	24.0	-30.8
18,721.0	92.78	357.94	9,469.8	9,441.8	-231.9	1.01	0.66	-0.77	19.8	-28.7
18,815.0	93.12	357.77	9,465.0	9,535.6	-235.4	0.40	0.36	-0.18	14.8	-25.9
18,909.0	91.68	356.88	9,461.1	9,629.5	-239.8	1.80	-1.53	-0.95	10.8	-22.1
19,003.0	91.07	356.72	9,458.8	9,723.3	-245.0	0.67	-0.65	-0.17	8.5	-17.6
19,098.0	90.74	357.01	9,457.3	9,818.1	-250.2	0.46	-0.35	0.31	6.9	-13.1
19,192.0	90.57	357.45	9,456.2	9,912.0	-254.8	0.50	-0.18	0.47	5.7	-9.2
19,286.0	90.54	356.63	9,455.3	10,005.9	-259.6	0.87	-0.03	-0.87	4.7	-5.1
19,380.0	91.37	356.93	9,453.8	10,099.7	-264.9	0.94	0.88	0.32	3.0	-0.5
19,400.0	91.64	356.51	9,453.2	10,119.7	-266.0	2.50	1.35	-2.10	2.5	0.5
Last MWD Survey (MD=19400.0)										
19,595.0	91.64	356.51	9,447.7	10,314.2	-277.9	0.00	0.00	0.00	-3.3	10.9
Projection to Bit (MD=19595.0) - PBHL (Neptune 10 St Com #102H)										

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,860.0	8,853.5	-102.1	-136.2	KOP, MD:8860.0', TVD:8853.5', N/S:-102.1', E/W:-136.2', INC:2.26
9,109.8	9,089.1	-31.0	-143.9	FTP Crossing, MD:9109.8', TVD:9089.1', N/S:-31.0', E/W:-143.9', INC:32.93
19,400.0	9,453.2	10,119.7	-266.0	Last MWD Survey (MD=19400.0')
19,595.0	9,447.7	10,314.2	-277.9	Projection to Bit (MD=19595.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox 11/18/2020

Signed

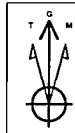
Date



Lea County, NM (NAD 83 NME)
 Neptune 10 State Com #102H
 Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level



Azimuths to Grid North
 True North: -0.41°
 Magnetic North: 6.24°

Magnetic Field
 Strength: 47665.0nT
 Dip Angle: 60.03°
 Date: 2/14/2020
 Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 6.24°
 To convert a Magnetic Direction to a True Direction, Add 6.66° East
 To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: #102H

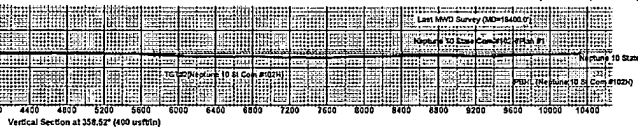
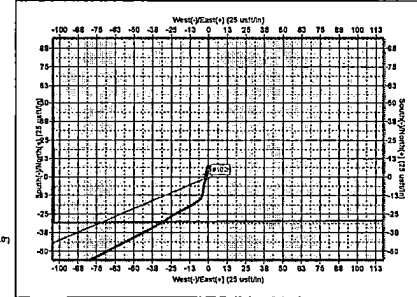
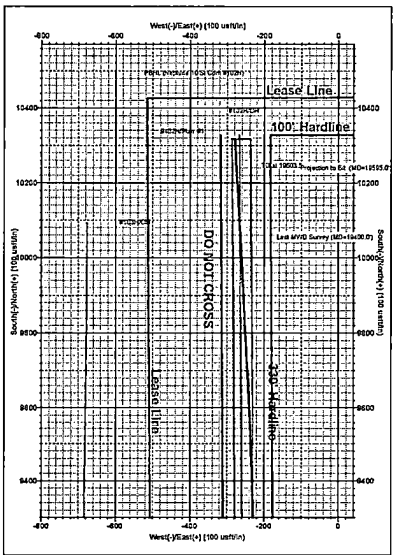
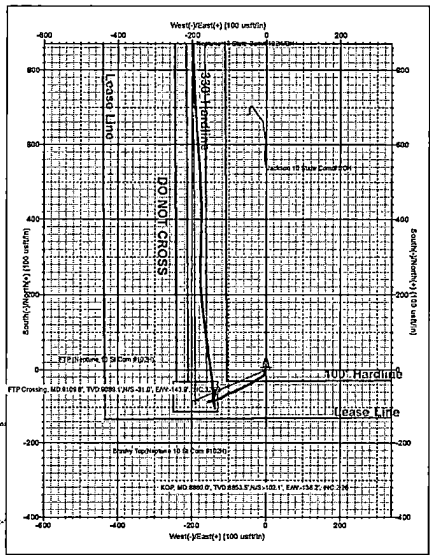
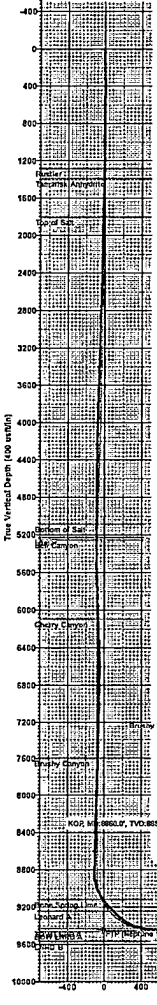
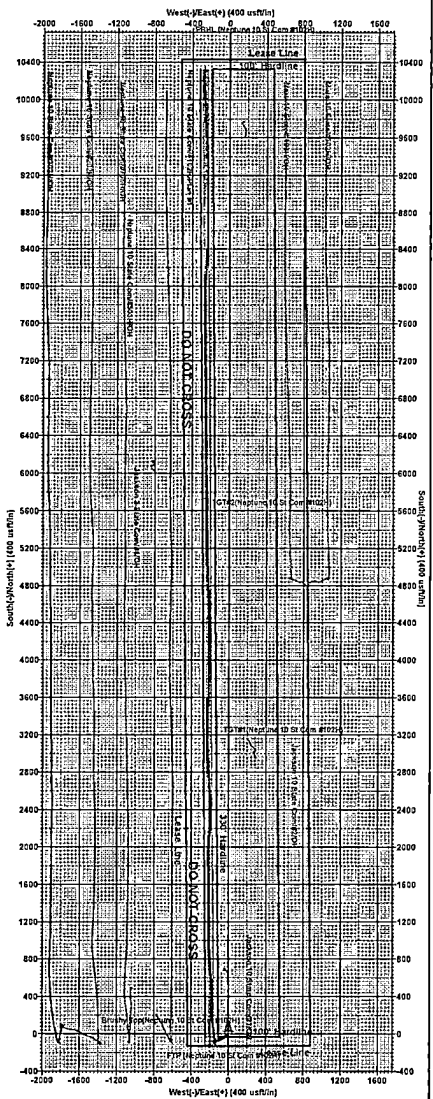
		3513.0				
		KB 25 @ 3638 Surf				
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	446534.00	780654.00	32° 13' 30.810 N	103° 33' 31.810 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	V Sect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2130.0	0.00	0.00	2130.0	0.0	0.0	0.00	0.00	0.0	
3	2329.9	4.00	246.91	2329.8	-2.7	-6.4	2.00	246.91	-2.6	
4	5092.1	4.00	246.91	5085.2	-78.3	-183.6	0.00	0.00	-73.5	
5	5292.0	0.00	0.00	5285.0	-81.0	-190.0	2.00	180.00	-76.1	
6	8878.0	0.00	0.00	8871.0	-81.0	-190.0	0.00	0.00	-76.1	
7	9792.9	90.49	359.58	9443.9	495.8	-194.3	10.00	359.58	501.7	
8	11881.6	90.49	359.58	9426.0	2595.4	-209.8	0.00	0.00	2600.0	TGT#1 (Neptune 10 St Com #102H)
9	11924.7	89.63	359.58	9426.0	2638.5	-210.1	2.00	-180.00	2643.0	
10	15017.3	89.63	359.58	9446.0	5730.9	-233.0	0.00	0.00	5735.0	TGT#2 (Neptune 10 St Com #102H)
11	15032.8	89.94	359.58	9446.1	5746.4	-233.2	2.00	0.00	5750.5	
12	19603.5	89.94	359.58	9451.0	10317.0	-267.0	0.00	0.00	10320.5	PBHL (Neptune 10 St Com #102H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
Brushy Top (Neptune 10 St Com #102H)	7896.0	-81.0	-190.0	446453.00	780664.00	Polygon
TGT#1 (Neptune 10 St Com #102H)	9446.0	2595.4	-209.8	449129.40	780644.18	Point
FTF (Neptune 10 St Com #102H)	9446.0	-31.0	-195.0	446563.00	780654.00	Point
TGT#2 (Neptune 10 St Com #102H)	9446.0	5730.9	-233.0	452264.90	780620.96	Point
PBHL (Neptune 10 St Com #102H)	9451.0	10317.0	-267.0	456851.00	780587.00	Rectangle (Sides: L0.0 W50.0)



LEA COUNTY, NM (NAD 83 NME)
 Neptune 10 State Com #102H
 Plan #1
 WELLS: 102H
 DATE: 2/14/2020